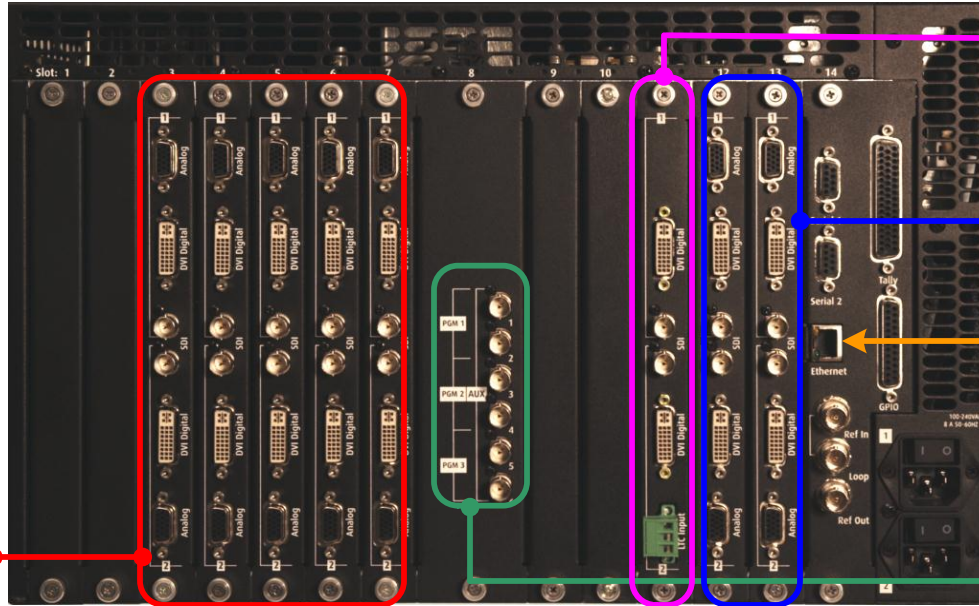


### FSN-1004 Connections

System Configuration	
Card Name	Slot Number
Universal Input Card (UIC)	3 through 7
Mixer Effects (M/E)	8
Multiviewer (MVR)	11
Standard Output card (SOC)	12 & 13
System	14



**10 Universal Inputs**  
 Each supporting 3G/HD/SD SDI, Analog or DVI

**16 Window Multiviewer**  
 2 Outputs of DVI / SDI

**4 Universal outputs**  
 Each supporting 3G/HD/SD SDI, Barcolink Analog or DVI at independent resolutions

**GUI Control**  
 Ethernet from Mac or PC

**6 SDI Auxiliary outputs**  
 720p, 1080p, 1200p @ 50/60 Hz

### System Setup

- Power Up and Status Check** Power up the FSN-1400, monitors and peripherals. In the **System Menu** tables, ensure that all devices are connected, and all cards are recognized.
- Return to Factory Default (Optional)** For a new event, back up your system if desired, then on the **Reset Menu**, perform a complete factory reset. For a continuing (or multi-day) event, this step is not required.
- Restoring the System** In the **Backup and Restore Menu**, press **{Restore System}** and follow the prompts. No further setup operations are required.
- Communications Setup** In the **Communications Setup Menu**, check the table to ensure that all devices are connected. If not, press **{Discover FSN-1400}** and connect to the desired frame, or re-check connections.
- Output Test Patterns (Optional)** In the **Output Test Patterns Menu**, select and display test patterns on one or more outputs, to assist with external device setup. Press **{All Off}** when you are finished.

- Universal Input Setup** In the **Input Menu**, select a UIC input and name it. Press **{Setup}**. Set up all parameters on the three setup tabs. When complete, save settings, and repeat for all UIC inputs.
- Multiviewer Setup** In the **Multiviewer Setup Menu**, select the output format and layout, assign sources to PIPs, select all colors and UMD (Under Monitor Display) text.
- User Preference Setup (Optional)** In the **User Preferences Menu**, set the desired preferences for invalid video and memory auto lock.
- Saving the Setup** In the **System Menu**, press **{Save All}** to save all system parameters to non-volatile memory, including input and output setups, button mappings, tallies, user preferences and more.
- Backing up the System** In the **Backup and Restore Menu**, press **{Backup System}** to back up the system setup and all memory registers.

#### Universal Input Card (UIC)

Use the **"Input Setup Menu"** to name universal inputs and to set all input parameters. Use the **"Analog Format Connection Table"** on page 2 for input combinations.

#### M/E Card

Use the **Aux Setup Menu** to map and name Aux outputs. All outputs run at the same resolution (720p, 1080p, 1200p or BarcoLink @ 50/60 Hz)

#### Multiviewer (MVR)

Use the **"Multiviewer Setup Menu"** to set all multiviewer parameters. DVI outputs are always active. BNC outputs are only active for SMPTE video output formats. For MVR outputs 1 and 2 (regardless of the selected layout), the same output signal appears on both the DVI and BNC connectors. In single monitor layouts, the selected layout appears identically on MVR outputs 1 and 2. In dual monitor layouts, one half of the selected layout appears on MVR Output 1, and the other half appears on MVR Output 2. Time Code Connections:  
**Differential:** use the +, - and GND terminals.  
**Single-ended:** use the + and GND terminals.

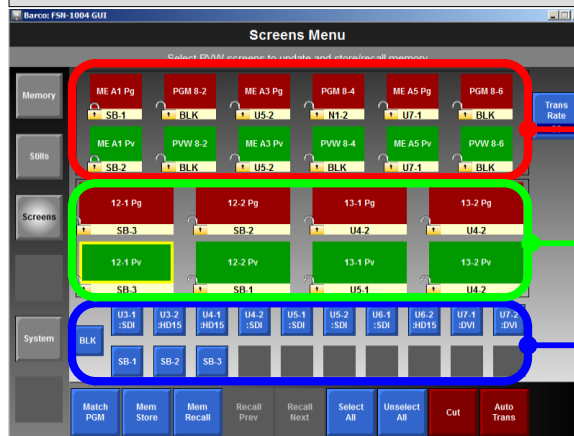
#### Standard Output Card (SOC)

Use the **"Aux Setup Menu"** to name universal Aux outputs, and to set all output parameters. Use the **"Analog Format Connection Table"** on page 2 for output combinations. Each output resolution is independently selectable by the user

## System Operation

- M/E Mixer Mode** From the Output setup of the System Menu select the desired M/E mixer mode: PGM/PVW or Mixer mode
- M/E output format** Select the M/E format from the System/Out setup menu (720p, 1080p, 1200 or BarcoLink )
- SOC output format** Select the output format, and if desired change sizing and scaling parameters, adjust sharpness and color and select sync type and polarity for each SOC output channel from the System\Out Setup\SOC menu
- Screen Selection** Select a program or preview screen you want to modify. Individual or multiple screens can be selected or deselected. Selected screens are outlined with a yellow border.
- Source Selection** Select the preview source to transition to Program.
- Transition** Perform the transition by selecting the the CUT or Auto Trans button
- Memory/Stills** (optional) Please consult the user's manual for these operations

## M/E Mixer Mode : PGM/PVW



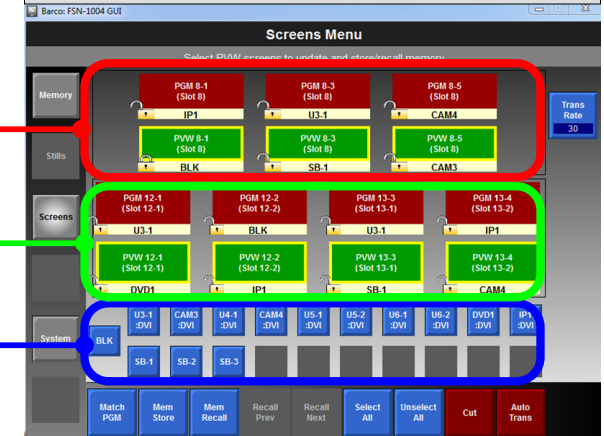
### M/E Outputs

- Each M/E BNC corresponds to a program output
- Previews are viewed only with the multiviewer
- Six (6) Program outputs are available
- M/E transitions support only cuts
- All outputs run at the same resolution (720p, 1080p, 1200p or BarcoLink @ 50/60 Hz)

### SOC Outputs

- Four independent channels are available
- Each channel includes a BNC, DVI and HD-15 connector
- SOC previews are viewed in the multiviewer

## M/E Mixer Mode : Mixer



### M/E Outputs

- The M/E BNCs correspond to three (3) pairs of program / preview outputs
- Previews are available on BNC connectors or can be viewed in the multiviewer
- Three (3) Program outputs are available
- M/E transitions support mix or cuts
- All outputs run at the same resolution (720p, 1080p, 1200p or BarcoLink @ 50/60 Hz)

- SOC transitions support mix and cuts
- Supports universal progressive and interlaced formats

## LEDs

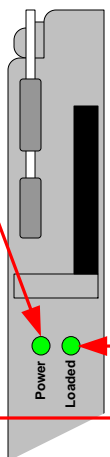
### Card LEDs

#### Card Power LED

- Power is OK
- Power is bad or failed on the card
- Chassis is off, or power has failed

#### Loaded LED

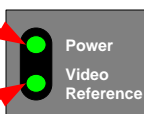
- All FPGAs loaded successfully
- An FPGA is bad, or software not properly loaded
- Chassis is off, or power has failed



### Front Door LEDs

#### Power LED

- System card has power, and the card's software is running
- Not currently used
- Power is off, or no System card is present, or System card has failed



#### Video Reference LED

- External reference selected, signal is present and FSN-1400 is locked
- External reference selected, signal is missing or FSN-1400 is not locked
- Free Run is selected.

## Analog Format Connection Table

Breakout Cable Wire Color	Comp Video	S-Video (Y/C)	YUV (YPbPr)	RGB Sync on Green	RGB Comp Sync	RGB Separate H V
R	●		✓ (Pr)	✓	✓	✓
G	●	✓	✓ (Lum)	✓	✓	✓
B	●	✓ (Chrom)	✓ (Pb)	✓	✓	✓
H Sync					✓	✓
V Sync						✓

## FSN Notes

- For complete details on the FSN-1004 menus, installation, setup, configuration and operations procedures, please refer to the Series User's Guide (due January 2013)
- For the latest version of the Quick Start Guide, visit [www.barco.com](http://www.barco.com).
- Any item contained in this document may change without notice.